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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/579,864	05/25/2000	Brent C. Hawks	STL9-2000-0034US1	9641

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INTERNATIONAL BUSINESS MACHINES CORP
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EXAMINER

MIRZA, ADNAN M

ART UNIT PAPER NUMBER

2145

DATE MAILED: 12/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/579,864

Applicant(s)

HAWKS ET AL.

Examiner

Adnan M Mirza

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stedman et al (U.S. 6,081,837) and Imai et al (U.S. 6,148,334).

As per claims 1, 15 Stedman disclosed a method providing information describing a file system connection between a local system and host system, said method comprising: encoding the information in meta language format comprising one or more tags, each having an identifier and a set of one or more attributes (col. 19, lines 53-67 & col. 20, lines 1-25),

However Stedman failed to disclose wherein the encoded information comprises a file system connection descriptor; said file system connection descriptor comprising: a local system data structure representing the local file system; a host system data structure representing the host file system, and a mapping data structure representing a mapping between the local file system and the host file system, and parsing the file system connection descriptor according to the meta language tags.

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In the same field of endeavor Stedman disclosed the file requesting client includes a connection unit for setting up a connection with the file server, a file requesting unit for requesting a file to the file server, a file receiving unit for receiving a file requested from the file request unit, a file storing unit for storing a file received by the file receiving unit into a storage medium, a file display unit (col. 7, lines 3-20). First the user or program request the transfer and display of the file by issuing the file transfer request. For this purpose it suffices to use the URL as described above which is an identifier for uniquely identifying the file (col. 24, lines 8-44). In a currently preferred architecture, the client computer is linked to the server computer by the Internet, or a local area network, the server computer is linked to the host computer by an SNA network, and the host computer sends data to the server computer in a PS data stream. The server computer receives data from the host computer that represents a host computer display screen having function key capable fields and an associated partial list of items (col. 2, lines 55-63).

It would have been obvious to one having ordinary skill in the art at the time of the invention it was made to have incorporated wherein the encoded information comprises a file system connection descriptor; and parsing the project topology descriptor according to the meta language tags as taught by Imai in the method of Stedman to reduce the latency by transferring multiple files immediately in response to a client's request while making connection to the network. Also by specifying the needed file for later while making connection to the network will result in increase productivity and reducing cost.

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3. As per claims 2,9 Stedman-Imai disclosed a data structure embodied in a computer-readable storage medium, said data structure representing information describing a file system connection between a local file system located on a local system and a host file system located on a host system (Stedman, col. 3, lines 38-49), wherein said data structure comprises a file system connection descriptor comprising: a local system data structure representing the local file system (Imai, col. 7, lines 4-23); a host system data structure representing the host file system; and a mapping data structure representing a mapping between the local file system and the host file system (Imai, col. 8, lines 11-23).

4. As per claims 3,16 Stedman-Imai wherein the mapping data structure comprises: a local file extension data structure storing a local file extension; a host file pattern data structure storing a pattern describing a host file to which the file extension will be applied (Imai, col. 22, lines 16-53); and a transfer type data structure storing a transfer type that defines how data will be transferred between the host system and the local system for this mapping (Imai, col. 28, lines 38-65).

5. As per claim 4 Stedman-Imai disclosed wherein the mapping data structure further comprises: a host code page data structure storing an identification of a host code page in which data in the host file is encoded; and a local-code page data structure storing an identification of a local code page in which data in a local file is encoded (Imai, col. 27, lines 23-53).

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6. As per claims 5,11,18 Stedman-Imai wherein the host system data structure comprises: a data structure storing an identification of the host system; a data structure storing an identification of a user of the host system (Imai, col. 22, lines 17-53); a data structure storing an identification of a preferred drive on the local system (Imai, col. 7, lines 45-57); and a data structure storing an indication that the preferred drive be automatically connected by default when a remote connection is established with the host system(Stedman, col. 19, lines 5-40).

7. As per claims 6,12,19 Stedman-Imai disclosed wherein the host system data structure further comprises data storing an identification of a list of qualifier data structures, wherein each qualifier data structure stores a qualifier name, a name identifying directory on the host system (Imai, col. 7, lines 43-57), and an identification of the file attributes of a file located in the host system directory (Imai, col. 8, lines 40-64).

8. As per claims 7,13,20 Stedman-Imai disclosed the file system connection descriptor encoded in a tagged meta language document comprising one or more tags, each tag having an identifier and a set of one or more attributes (Imai, col. 15, lines 40-57).

9. As per claims 8,14,21 Stedman-Imai disclosed wherein the tagged meta language is Extensible Markup Language (XML) (Stedman, col. 19, lines 53-67).

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10. As per claims 10,17 Stedman-Imai disclosed wherein the mapping data structure further comprises a host codepage data structure storing an identification of a host codepage in which data in the host file is encoded; and a local-codepage data structure storing an identification of a local codepage in which data in a local file is encoded (Imai, col. 4, lines 29-42).

Applicant arguments are as follows:

11. Applicant argued that prior art did not disclose in a network connection used for transferring a list of files wherein the network connection used for transferring a list of files wherein the network connection associated with a session ID identifying the network connection.

As to applicant's argument Imai disclosed after connection processing, between the file server and the file requesting client is completed, the file requesting client is now connected with the file server by the HTTP, and menu which is a list of files that can be provided by the file server is requested by a menu request. In response to the menu request, the file server transmits a menu to the file requesting client by a menu transmission. Here, the menu is given as home pages available at the file server or pages that can be reached by tracking links from those home pages (col. 8, lines 40-49).

12. Applicant argued that prior art did not disclose the file system connection descriptor.

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As to applicant's argument Imai disclosed when user select the desired file from the menu, and a file list request for the selected file is sent to the file server. At the file server, when the file list request from the file requesting client is received, the file list corresponding to the selected file is sent to the file requesting client by a file list transmission (col. 8, lines 49-54). One ordinary skill in the art at the time of the invention can interpret the "file system connection descriptor" as to file list that has the list of file ID's and its description.

13. Applicant argued that prior art did not disclose a mapping data structure representing a mapping between the local file system and the host file system.

As to applicants argument Imai disclosed for a case in which the multiple files transfer request unit for transferring for only those files which match with the transfer condition is provided in the file requesting client in advance, but this operation procedure is for a case in which the multiple files transfer request unit is not provided in the file requesting client from the beginning and its program is to be transferred from the file server to the file requesting client (col. 27, lines 23-41). One ordinary skill in the art at the time of the invention knows that mapping the in a file system is the same as matching or comparing the in the file system.

14. Applicant argued that prior art did not disclose a host file pattern data structure storing a pattern describing a host file to which the local file extension will be applied.

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As to applicants argument Stedman disclosed the host extension retrieves field text, from a PS data stream transmitted from the host computer, preferably host extension retrieves the filed text by querying the display control and saving a local copy of the text (col. 9, lines 19-24).

Conclusion

15. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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16. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (703)-305-4633.

17. The examiner can normally be reached on Monday to Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703)-308-5221. The fax for this group is (703)-746-7239.

18. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)-746-7239 (For Status Inquiries, Informal or Draft Communications, please label "PROPOSED" or "DRAFT");

(703)-746-7239 (For Official Communications Intended for entry, please mark "EXPEDITED PROCEDURE"),

(703)-746-7238 (For After Final Communications).

19. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Any response to a final action should be mailed to:

BOX AF

Commissioner of Patents and Trademarks Washington, D.C.20231

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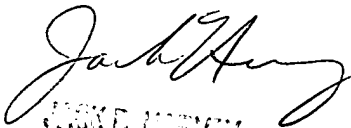
Or faxed to:

Hand-delivered responses should be brought to 4th Floor Receptionist, Crystal Park II,
2021 Crystal Drive, Arlington, VA 22202.

AM

Adnan Mirza

Examiner


JACK HARVEY
SUPERVISORY EXAMINER